



MicroPython - Communication série



[Mise à jour le : 4/6/2023] **En cours de rédaction**

- **Ressources**

- [MicroPython.org](https://micropython.org)
- [MicroPython documentation](#)
- [classe UART - bus de communication série duplex](#)
- [IDE Thonny](#)

1. Présentation

2 Communication synchrone

2.1 Bus I2C

Outils

Scanner I2C

[scan.py](#)

```
# -----  
# -----  
# Titre : Scanner I2C  
# Source : adafruit  
# Langage : CircuitPython  
# Circuit : Raspberry Pi Pico  
#  
# Remarques  
# Si le bus I2C semble bloqué, utiliser le code si dessous dans la  
# console  
# >>> import busio  
# >>> busio.I2C().unlock()  
# -----
```

```
-----  
import time  
import board  
import busio  
  
i2c_0 = busio.I2C(board.GP9, board.GP8) # Accès I2C0 sur le Grove  
Shield Pi Pico  
i2c_1 = busio.I2C(board.GP7, board.GP6) # Accès I2C1  
  
while not i2c_0.try_lock():  
    pass  
  
while not i2c_1.try_lock():  
    pass  
  
try:  
    while True:  
        print(  
            "Adresses:",  
            [hex(device_address_0) for device_address_0 in  
i2c_0.scan()], " sur I2C0",  
            [hex(device_address_1) for device_address_1 in  
i2c_1.scan()], " sur I2C1",  
            )  
        time.sleep(2)  
  
finally: # unlock the i2c bus when ctrl-c'ing out of the loop  
    i2c_0.unlock()  
    i2c_1.unlock()
```

3. Communication asynchrone

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